

From: Fredman, Jeffrey  
Sent: Thursday, June 05, 2003 3:04 PM  
To: STIC-Biotech/ChemLib  
Cc: Kaushal, Sumesh  
Subject: FW: 09/734672: Sequence search >> Please RUSH <<

PLEASE RUSH.

I Approve.

Jeff Fredman

-----Original Message-----

Fr m: Kaushal, Sumesh  
Sent: Thursday, June 05, 2003 2:25 PM  
T : Fredman, Jeffrey  
Subject: 09/734672: Sequence search >> Please RUSH <<

Rush SEQ search requested (an amendment due this biweek)

09/734672: Sequence search

Title: CODING SEQUENCES OF THE HUMAN BRCA1 GENE

Please search only in Commercial database (not pending files)

SEQ ID NO: 1  
SEQ ID NO: 3

Priority date: 02/12/1995

thanks

*S. Kaushal*

CM1 12A07 AU1636

Ph: 703-305-6838

Mail Box: 11E12

RECEIVED  
JUN -5 2003  
STIC

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_



# Blast 2 Sequences results

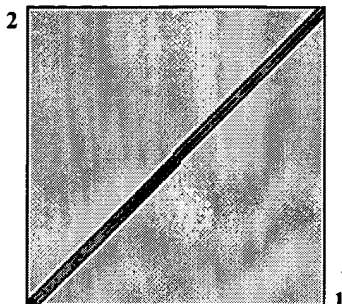
[PubMed](#)[Entrez](#)[BLAST](#)[OMIM](#)[Taxonomy](#)[Structure](#)

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.5 [Nov-16-2002]

Match:  Mismatch:  gap open:  gap extension:   
x\_dropoff:  expect:  wordsize:  Filter ☒

Sequence 1 gi\_3966817 Sequence 1 from patent US 5750400 Length 5711 (1 .. 5711)

Sequence 2 gi\_3966818 Sequence 3 from patent US 5750400 Length 5711 (1 .. 5711)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

Score = 1.089e+04 bits (5663), Expect = 0.0

Identities = 5690/5711 (99%)

Strand = Plus / Plus

```
Query: 1   agctcgctgagacttcctggacccgcaccaggctgtggggtttctcagataactgggcc 60 - 82-1
          |||
Sbjct: 1   agctcgctgagacttcctggacccgcaccaggctgtggggtttctcagataactgggcc 60 - 82-3

Query: 61   cctgcgctcaggaggccttcaccctctgctctgggttaaagttcattggaacagaaagaaa 120
          |||
Sbjct: 61   cctgcgctcaggaggccttcaccctctgctctgggttaaagttcattggaacagaaagaaa 120

Query: 121  tggatttatctgctcttcgcgttgaagaagtacaaaatgtcattaatgctatgcagaaaa 180
          |||
Sbjct: 121  tggatttatctgctcttcgcgttgaagaagtacaaaatgtcattaatgctatgcagaaaa 180

Query: 181  tcttagagtgtcccatctgtctggagttgatcaaggaacctgtctccaaaagtgtgacc 240
          |||
Sbjct: 181  tcttagagtgtcccatctgtctggagttgatcaaggaacctgtctccaaaagtgtgacc 240

Query: 241  acatattttgcaaattttgcatgtgaaacttctcaaccagaagaaagggccttcacagt 300
          |||
Sbjct: 241  acatattttgcaaattttgcatgtgaaacttctcaaccagaagaaagggccttcacagt 300

Query: 301  gtcctttatgtaagaatgatataacaaaaggagcctacaagaaagtacgagatttagtc 360
          |||
Sbjct: 301  gtcctttatgtaagaatgatataacaaaaggagcctacaagaaagtacgagatttagtc 360

Query: 361  aacttggtgaagagctattgaaaatcatttgcttttcagcttgacacaggtttggagt 420
          |||
Sbjct: 361  aacttggtgaagagctattgaaaatcatttgcttttcagcttgacacaggtttggagt 420
```

Query: 421 atgcaaacagctataattttg aaaggaaaataactctctgaacatctaaaagatg 4  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 421 atgcaaacagctataattttgcaaaaaaggaaaataactctctgaacatctaaaagatg 480

Query: 481 aagtttctatcatccaaagtatgggctacagaaaccgtgccaaaagacttctacagagt 540  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 481 aagtttctatcatccaaagtatgggctacagaaaccgtgccaaaagacttctacagagt 540

Query: 541 aaccgaaaatccttccttgaggaaaccagtctcagtgccaactcttaaccttgga 600  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 541 aaccgaaaatccttccttgaggaaaccagtctcagtgccaactcttaaccttgga 600

Query: 601 ctgtgagaactctgaggacaaagcagcggatacaacctcaaaagacgtctgtctacattg 660  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 601 ctgtgagaactctgaggacaaagcagcggatacaacctcaaaagacgtctgtctacattg 660

Query: 661 aattgggatctgattcttctgaagataccgttaataaggcaacttattgcagtggtggag 720  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 661 aattgggatctgattcttctgaagataccgttaataaggcaacttattgcagtggtggag 720

Query: 721 atcaagaattgttacaaatcacccctcaaggaaaccagggatgaaatcagtttgattctg 780  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 721 atcaagaattgttacaaatcacccctcaaggaaaccagggatgaaatcagtttgattctg 780

Query: 781 caaaaaaggctgcttgtgaattttctgagacggatgtaacaaatactgaacatcatcaac 840  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 781 caaaaaaggctgcttgtgaattttctgagacggatgtaacaaatactgaacatcatcaac 840

Query: 841 ccagtaataatgatttgaacaccactgagaagcgtgcagctgagaggcatccagaaaagt 900  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 841 ccagtaataatgatttgaacaccactgagaagcgtgcagctgagaggcatccagaaaagt 900

Query: 901 atcagggtagtctgttttcaaacttgcagtgtggagccatgtggcaciaaatactcatgcc 960  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 901 atcagggtagtctgttttcaaacttgcagtgtggagccatgtggcaciaaatactcatgcc 960

Query: 961 gctcattacagcatgagaacagcagtttattactcactaaagacagaatgaatgtagaaa 1020  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 961 gctcattacagcatgagaacagcagtttattactcactaaagacagaatgaatgtagaaa 1020

Query: 1021 aggctgaattctgtaataaaaagcaaacagcctggcttagcaaggagccaacataacagat 1080  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1021 aggctgaattctgtaataaaaagcaaacagcctggcttagcaaggagccaacataacagat 1080

Query: 1081 gggctggaagtaaggaaacatgtaatgataggcggactcccagcacagnnnnnnggtag 1140  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1081 gggctggaagtaaggaaacatgtaatgataggcggactcccagcacagaaaaaaaggtag 1140

Query: 1141 atctgaatgctgatcccctgtgtgagagaaaagaatggaataagcagaaactgccatgct 1200  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1141 atctgaatgctgatcccctgtgtgagagaaaagaatggaataagcagaaactgccatgct 1200

Query: 1201 cagagaatcctagagatactgaagatgttcttgataacactaaatagcagcattcaga 1260  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1201 cagagaatcctagagatactgaagatgttcttgataacactaaatagcagcattcaga 1260

Query: 1261 aagttaatgagtgggtttccagaagtgatgaactgttaggttctgatgactcacatgatg 1320  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1261 aagttaatgagtgggtttccagaagtgatgaactgttaggttctgatgactcacatgatg 1320

Query: 1321 gggagtctgaatcaaatgccaaagttagctgatgtattggacgttctaaatgaggtagatg 1380  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct: 1321 gggagtctgaatcaaatgccaaagttagctgatgtattggacgttctaaatgaggtagatg 1380

Query: 1381 aatattctgttcttcagagaaaatagacttactggccagtgatcctcatgaggctttaa 1440  
|||||  
Sbjct: 1381 aatattctgttcttcagagaaaatagacttactggccagtgatcctcatgaggctttaa 1440

Query: 1441 tatgtaaaagtgaagagttcactccaaatcagtagagagtaatatgaagacaaaatat 1500  
|||||  
Sbjct: 1441 tatgtaaaagtgaagagttcactccaaatcagtagagagtaatatgaagacaaaatat 1500

Query: 1501 ttgggaaaacctatcggaagaaggcaagcctcccaacttaagccatgtaactgaaaatc 1560  
|||||  
Sbjct: 1501 ttgggaaaacctatcggaagaaggcaagcctcccaacttaagccatgtaactgaaaatc 1560

Query: 1561 taattataggagcatttggtactgagccacagataatacaagagcgccccctcacaata 1620  
|||||  
Sbjct: 1561 taattataggagcatttggtactgagccacagataatacaagagcgccccctcacaata 1620

Query: 1621 aattaaagcgtaaaaggagacctacatcaggccttcacctgaggattttatcaagaaag 1680  
|||||  
Sbjct: 1621 aattaaagcgtaaaaggagacctacatcaggccttcacctgaggattttatcaagaaag 1680

Query: 1681 cagatttggcagttcaaaagactcctgaaatgataaatcagggaactaaccaaacggagc 1740  
|||||  
Sbjct: 1681 cagatttggcagttcaaaagactcctgaaatgataaatcagggaactaaccaaacggagc 1740

Query: 1741 agaatggtcaagtgatgaatattactaatagtggcatgagaataaaacaaaagggtgatt 1800  
|||||  
Sbjct: 1741 agaatggtcaagtgatgaatattactaatagtggcatgagaataaaacaaaagggtgatt 1800

Query: 1801 ctattcagaatgagaaaaatcctaaccatagaatcactcgaaaaagaatctgctttca 1860  
|||||  
Sbjct: 1801 ctattcagaatgagaaaaatcctaaccatagaatcactcgaaaaagaatctgctttca 1860

Query: 1861 aaacgaaagctgaacctataagcagcagtagataagcaatatggaactcgaattaaatatcc 1920  
|||||  
Sbjct: 1861 aaacgaaagctgaacctataagcagcagtagataagcaatatggaactcgaattaaatatcc 1920

Query: 1921 acaattcaaaagcacctaaaaagaataggctgaggaggaagtcttctaccaggcatattc 1980  
|||||  
Sbjct: 1921 acaattcaaaagcacctaaaaagaataggctgaggaggaagtcttctaccaggcatattc 1980

Query: 1981 atgcgcttgaactagtagtcagtagaaatctaagcccacctaattgtactgaattgcaaa 2040  
|||||  
Sbjct: 1981 atgcgcttgaactagtagtcagtagaaatctaagcccacctaattgtactgaattgcaaa 2040

Query: 2041 ttgatagttgttctagcagtagaagagataaagnnnnnnngtacaaccaaagccagtca 2100  
|||||  
Sbjct: 2041 ttgatagttgttctagcagtagaagagataaagaaaaaaaagtacaaccaaagccagtca 2100

Query: 2101 ggcacagcagaaaacctacaactcatggaaggtaagaacctgcaactggagccaagaaga 2160  
|||||  
Sbjct: 2101 ggcacagcagaaaacctacaactcatggaaggtaagaacctgcaactggagccaagaaga 2160

Query: 2161 gtaacaagccaaatgaacagacaagtaaaagacatgacagtgatactttcccagagctga 2220  
|||||  
Sbjct: 2161 gtaacaagccaaatgaacagacaagtaaaagacatgacagcgatactttcccagagctga 2220

Query: 2221 agttaacaaatgcacctgggttcttttactaagtgttcaaataccagtgaacttaagaat 2280  
|||||  
Sbjct: 2221 agttaacaaatgcacctgggttcttttactaagtgttcaaataccagtgaacttaagaat 2280

Query: 2281 ttgtcaatcctagccttccaagagaagaaaaagaagagaaactagaaacagttaaagtgt 2340  
|||||  
Sbjct: 2281 ttgtcaatcctagccttccaagagaagaaaaagaagagaaactagaaacagttaaagtgt 2340

Query: 2341 ctaataatgctgaagaccccaagatctcatgttaagtggagaaagggttttgcaaactg 2400  
|||||  
Sbjct: 2341 ctaataatgctgaagaccccaagatctcatgttaagtggagaaagggttttgcaaactg 2400  
.

Query: 2401 aaagatctgtagagagtagcagtagtttactggtacgtggtactgattatggcactcagg 2460  
|||||  
Sbjct: 2401 aaagatctgtagagagtagcagtagtttactggtacgtggtactgattatggcactcagg 2460  
.

Query: 2461 aaagtagtctcgttactggaagtttagcactctaggaaggcaaaaacagaaccaaataaat 2520  
|||||  
Sbjct: 2461 aaagtagtctcgttactggaagtttagcactctaggaaggcaaaaacagaaccaaataaat 2520  
.

Query: 2521 gtgtgagtcagtggtgcagcatttgaaaaccccaagggaactaattcatggttgttccaaag 2580  
|||||  
Sbjct: 2521 gtgtgagtcagtggtgcagcatttgaaaaccccaagggaactaattcatggttgttccaaag 2580  
.

Query: 2581 ataatagaaatgacacagaaggctttaagtatccattgggacatgaagttaaccacagtc 2640  
|||||  
Sbjct: 2581 ataatagaaatgacacagaaggctttaagtatccattgggacatgaagttaaccacagtc 2640  
.

Query: 2641 gggaaacaagcatagaaatggaagaaagtgaacttgatgctcagtagtttgcagaatacat 2700  
|||||  
Sbjct: 2641 gggaaacaagcatagaaatggaagaaagtgaacttgatgctcagtagtttgcagaatacat 2700  
.

Query: 2701 tcaagggtttcaaagcgccagtcatttgctctgttttcaaataccaggaaatgcagaagagg 2760  
|||||  
Sbjct: 2701 tcaagggtttcaaagcgccagtcatttgctctgttttcaaataccaggaaatgcagaagagg 2760  
.

Query: 2761 aatgtgcaacattctctgcccactctgggtccttaagaaacaaagtccaaaagtcactt 2820  
|||||  
Sbjct: 2761 aatgtgcaacattctctgcccactctgggtccttaagaaacaaagtccaaaagtcactt 2820  
.

Query: 2821 ttgaatgtgaacaaaaggaagaaaatcaaggaaagaatgagtcataatcaagcctgtac 2880  
|||||  
Sbjct: 2821 ttgaatgtgaacaaaaggaagaaaatcaaggaaagaatgagtcataatcaagcctgtac 2880  
.

Query: 2881 agacagttaatatcactgcaggctttcctgtggttggtcagaaagataagccagttgata 2940  
|||||  
Sbjct: 2881 agacagttaatatcactgcaggctttcctgtggttggtcagaaagataagccagttgata 2940  
.

Query: 2941 atgccaaatgtagtatcaaaggaggtctagggtttgtctatcatctcagttcagaggca 3000  
|||||  
Sbjct: 2941 atgccaaatgtagtatcaaaggaggtctagggtttgtctatcatctcagttcagaggca 3000  
.

Query: 3001 acgaaactggactcattactccaaataaacatggacttttacaaaacccatatacgatac 3060  
|||||  
Sbjct: 3001 acgaaactggactcattactccaaataaacatggacttttacaaaacccatatacgatac 3060  
.

Query: 3061 caccactttttcccatcaagtcatttggttaaaactaaatgtaagaaaaatctgctagagg 3120  
|||||  
Sbjct: 3061 caccactttttcccatcaagtcatttggttaaaactaaatgtaagaaaaatctgctagagg 3120  
.

Query: 3121 aaaacttttgaggaacattcaatgtcacctgaaagagaaatgggaaatgagaacattccaa 3180  
|||||  
Sbjct: 3121 aaaacttttgaggaacattcaatgtcacctgaaagagaaatgggaaatgagaacattccaa 3180  
.

Query: 3181 gtacagtgaacacaaatagccgtaataacattagagaaaatgtttttaaggagccagct 3240  
|||||  
Sbjct: 3181 gtacagtgaacacaaatagccgtaataacattagagaaaatgtttttaaggagccagct 3240  
.

Query: 3241 caagcaatattaatgaagtaggttccagtactaatgaagtggtccagtattaatgaaa 3300  
|||||

Sbjct: 3241 caagcaatattaatgaagtaggccccagactaatgaagtgggctccagtattaatgaaa 3

Query: 3301 taggttccagtgatgaaaacattcaagcagaactaggtagaacagagggccaaaattga 3360  
|||||

Sbjct: 3301 taggttccagtgatgaaaacattcaagcagaactaggtagaacagagggccaaaattga 3360

Query: 3361 atgctatgcttagattaggggttttgcacactgaggtctataaacaagtcttcctggaa 3420  
|||||

Sbjct: 3361 atgctatgcttagattaggggttttgcacactgaggtctataaacaagtcttcctggaa 3420

Query: 3421 gtaattgtaagcatcctgaaataaaaaagcaagaatatgaagaagtagttcagactgtta 3480  
|||||

Sbjct: 3421 gtaattgtaagcatcctgaaataaaaaagcaagaatatgaagaagtagttcagactgtta 3480

Query: 3481 atacagatttctctccatatctgatttcagataacttagaacagcctatgggaagtagtc 3540  
|||||

Sbjct: 3481 atacagatttctctccatatctgatttcagataacttagaacagcctatgggaagtagtc 3540

Query: 3541 atgcatctcaggtttgttctgagacacctgatgacctgttagatgatggtgaaataaagg 3600  
|||||

Sbjct: 3541 atgcatctcaggtttgttctgagacacctgatgacctgttagatgatggtgaaataaagg 3600

Query: 3601 aagatactagttttgctgaaaatgacattaaggaaagtctgctgttttagcaaaagcg 3660  
|||||

Sbjct: 3601 aagatactagttttgctgaaaatgacattaaggaaagtctgctgttttagcaaaagcg 3660

Query: 3661 tccagagaggagagcttagcaggagtcctagccctttcacccatacacatttggtcagg 3720  
|||||

Sbjct: 3661 tccagaaaggagagcttagcaggagtcctagccctttcacccatacacatttggtcagg 3720

Query: 3721 gttaccgaagaggggccaagaaattagagtcctcagaagagaacttatctagtgaggatg 3780  
|||||

Sbjct: 3721 gttaccgaagaggggccaagaaattagagtcctcagaagagaacttatctagtgaggatg 3780

Query: 3781 aagagcttccctgcttccaacacttggtatttggtaaagtaaacaatataccttctcagt 3840  
|||||

Sbjct: 3781 aagagcttccctgcttccaacacttggtatttggtaaagtaaacaatataccttctcagt 3840

Query: 3841 ctactaggcatagcaccgttgctaccgagtgctgtcttaagaacacagaggagaatttat 3900  
|||||

Sbjct: 3841 ctactaggcatagcaccgttgctaccgagtgctgtcttaagaacacagaggagaatttat 3900

Query: 3901 tatcattgaagaatagcttaaatgactgcagtaaccaggtaatattggcaaaggcatctc 3960  
|||||

Sbjct: 3901 tatcattgaagaatagcttaaatgactgcagtaaccaggtaatattggcaaaggcatctc 3960

Query: 3961 aggaacatcaccttagtgaggaaacaaaatgttctgctagcttgttttcttcacagtgc 4020  
|||||

Sbjct: 3961 aggaacatcaccttagtgaggaaacaaaatgttctgctagcttgttttcttcacagtgc 4020

Query: 4021 gtgaattggaagacttgactgcaaatataaacaccaggatccttcttgattggttctt 4080  
|||||

Sbjct: 4021 gtgaattggaagacttgactgcaaatataaacaccaggatccttcttgattggttctt 4080

Query: 4081 ccaaacaaatgaggcatcagtcctgaaagccaggagttggtctgagtgacaaggaattgg 4140  
|||||

Sbjct: 4081 ccaaacaaatgaggcatcagtcctgaaagccaggagttggtctgagtgacaaggaattgg 4140

Query: 4141 tttcagatgatgaagaaagaggaacgggcttggaagaaaataatcaagaagagcaaagca 4200  
|||||

Sbjct: 4141 tttcagatgatgaagaaagaggaacgggcttggaagaaaataatcaagaagagcaaagca 4200

Query: 4201 tggattcaaacttaggtgaagcagcatctgggtgtgagagtgaacaagcgtctctgaag 4260

|||||  
Sbjct: 4201 tggattcaaacttaggtgaagcagcatctgggtgtgagagtgaacaagcgtctctgaag 4260

Query: 4261 actgctcagggctatcctctcagagtgcattttaaccactcagcagagggataccatgc 4320  
|||||  
Sbjct: 4261 actgctcagggctatcctctcagagtgcattttaaccactcagcagagggataccatgc 4320

Query: 4321 aacataacctgataaagctccagcaggaaatggctgaactagaagctgtgttagaacagc 4380  
|||||  
Sbjct: 4321 aacataacctgataaagctccagcaggaaatggctgaactagaagctgtgttagaacagc 4380

Query: 4381 atgggagccagccttctaacagctacccttccatcataagtgactcctctgcccttgagg 4440  
|||||  
Sbjct: 4381 atgggagccagccttctaacagctacccttccatcataagtgactcctctgcccttgagg 4440

Query: 4441 acctgcgaaatccagaacaaagcacatcagaaaaagcagtattaacttcacagaaaagta 4500  
|||||  
Sbjct: 4441 acctgcgaaatccagaacaaagcacatcagaaaaagcagtattaacttcacagaaaagta 4500

Query: 4501 gtgaataacctataagccagaatccagaaggcctttctgctgacaagtttgaggtgtctg 4560  
|||||  
Sbjct: 4501 gtgaataacctataagccagaatccagaaggcctttctgctgacaagtttgaggtgtctg 4560

Query: 4561 cagatagttctaccagtaaaaaataaagaaccaggagtggaaggctcatcccccttctaaat 4620  
|||||  
Sbjct: 4561 cagatagttctaccagtaaaaaataaagaaccaggagtggaaggctcatcccccttctaaat 4620

Query: 4621 gcccatcattagatgataggtggtacatgcacagttgctctgggagcttccagaatagaa 4680  
|||||  
Sbjct: 4621 gcccatcattagatgataggtggtacatgcacagttgctctgggagcttccagaatagaa 4680

Query: 4681 actaccatctcaagaggagctcattaaggttgttgatgtggaggagcaacagctggaag 4740  
|||||  
Sbjct: 4681 actaccatctcaagaggagctcattaaggttgttgatgtggaggagcaacagctggaag 4740

Query: 4741 agtctgggccacacgatttgacggaacatcttacttgccaaggcaagatctagagggaa 4800  
|||||  
Sbjct: 4741 agtctgggccacacgatttgacggaacatcttacttgccaaggcaagatctagagggaa 4800

Query: 4801 ccccttacctggaatctggaatcagcctcttctctgatgacctgaatctgatccttctg 4860  
|||||  
Sbjct: 4801 ccccttacctggaatctggaatcagcctcttctctgatgacctgaatctgatccttctg 4860

Query: 4861 aagacagagccccagagtcagctcgtgttggaacataccatcttcaacctctgcattga 4920  
|||||  
Sbjct: 4861 aagacagagccccagagtcagctcgtgttggaacataccatcttcaacctctgcattga 4920

Query: 4921 aagttccccaattgaaagttgcagaatctgccagggtccagctgctgctcatactactg 4980  
|||||  
Sbjct: 4921 aagttccccaattgaaagttgcagaatctgccagggtccagctgctgctcatactactg 4980

Query: 4981 atactgctgggtataatgcaatggaagaaagtgtgagcagggagaagccagaattgacag 5040  
|||||  
Sbjct: 4981 atactgctgggtataatgcaatggaagaaagtgtgagcagggagaagccagaattgacag 5040

Query: 5041 cttcaacagaaaggtcaacaaaagaatgtccatggtggtgtctggcctgaccccagaag 5100  
|||||  
Sbjct: 5041 cttcaacagaaaggtcaacaaaagaatgtccatggtggtgtctggcctgaccccagaag 5100

Query: 5101 aatttatgctcgtgtacaagtttgccagaaaacaccacatcactttaactaatctaatta 5160  
|||||  
Sbjct: 5101 aatttatgctcgtgtacaagtttgccagaaaacaccacatcactttaactaatctaatta 5160

Query: 5161 ctgaagagactactcatgttg gaaaacagatgctgagtttgtgtgtgaacggacac 5200  
 |||  
 Sbjct: 5161 ctgaagagactactcatgttggttatgaaaacagatgctgagtttgtgtgtgaacggacac 5220

Query: 5221 tgaaatattttctaggaattgcgggaggaaaatgggtagtttagctatttctgggtgaccc 5280  
 |||  
 Sbjct: 5221 tgaaatattttctaggaattgcgggaggaaaatgggtagtttagctatttctgggtgaccc 5280

Query: 5281 agtctattaaagaaagaaaaatgctgaatgagcatgattttgaagtcagaggagatgtgg 5340  
 |||  
 Sbjct: 5281 agtctattaaagaaagaaaaatgctgaatgagcatgattttgaagtcagaggagatgtgg 5340

Query: 5341 tcaatggaagaaccaccaaggtccaaagcgagcaagagaatcccaggacagaaagatct 5400  
 |||  
 Sbjct: 5341 tcaatggaagaaccaccaaggtccaaagcgagcaagagaatcccaggacagaaagatct 5400

Query: 5401 tcagggggtgtagaaatctgttgctatgggcccttcaccaacatgccacagatcaactgg 5460  
 |||  
 Sbjct: 5401 tcagggggtgtagaaatctgttgctatgggcccttcaccaacatgccacagatcaactgg 5460

Query: 5461 aatggatggtacagctgtgtggtgcttctgtggtgaaggagctttcatcattcaccttg 5520  
 |||  
 Sbjct: 5461 aatggatggtacagctgtgtggtgcttctgtggtgaaggagctttcatcattcaccttg 5520

Query: 5521 gcacaggtgtccaccaattgtggtgtgtgcagccagatgcctggacagaggacaatggct 5580  
 |||  
 Sbjct: 5521 gcacaggtgtccaccaattgtggtgtgtgcagccagatgcctggacagaggacaatggct 5580

Query: 5581 tccatgcaattgggcagatgtgtgagggacacctgtggtgacccgagagtgggtgttgaca 5640  
 |||  
 Sbjct: 5581 tccatgcaattgggcagatgtgtgagggacacctgtggtgacccgagagtgggtgttgaca 5640

Query: 5641 gtgtagcactctaccagtgcaggagctggacacctacctgataccccagatccccaca 5700  
 |||  
 Sbjct: 5641 gtgtagcactctaccagtgcaggagctggacacctacctgataccccagatccccaca 5700

Query: 5701 gccactactga 5711  
 |||  
 Sbjct: 5701 gccactactga 5711

CPU time: 0.17 user secs. 0.01 sys. secs 0.18 total secs.

Lambda K H  
 1.33 0.621 1.12

Gapped  
 Lambda K H  
 1.33 0.621 1.12

Matrix: blastn matrix:1 -2  
 Gap Penalties: Existence: 5, Extension: 2  
 Number of Hits to DB: 21  
 Number of Sequences: 0  
 Number of extensions: 21  
 Number of successful extensions: 7  
 Number of sequences better than 10.0: 1  
 Number of HSP's better than 10.0 without gapping: 1  
 Number of HSP's successfully gapped in prelim test: 0  
 Number of HSP's that attempted gapping in prelim test: 0  
 Number of HSP's gapped (non-prelim): 1  
 length of query: 5711  
 length of database: 8,462,007,751  
 effective HSP length: 27  
 effective length of query: 5684  
 effective length of database: 8,462,007,724  
 effective search space: 48098051903216  
 effective search space used: 48098051903216  
 T: 0



A: 0

X1: 6 (11.5 bits)

X2: 26 (50.0 bits)

S1: 12 (23.8 bits)

S2: 22 (43.0 bits)



CGCTCAGG...GACTTCGCGCTAG...GATEGGATCCCGGG...ATATAGCTCGATCGATCT  
TTCTCTAT...GCGG...ATGG...ATATACACACAC...CGGCGATAGCATGACTGATCTA  
CCCCAT...TT...CTTCGATACGTC...CTA  
CACAGACT...ACGCT...CTCACT...ACTTACTAACCAATTCGGAGGGGGGGAATCGGCGAGG

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search  for

Limits  Show:

☐ 1: AR007333: Sequence 1 from p...[gi:3966817]

LOCUS AR007333 5711 bp DNA linear PAT 04-DEC-1998  
DEFINITION Sequence 1 from patent US 5750400.  
ACCESSION AR007333  
VERSION AR007333.1 GI:3966817  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 5711)  
AUTHORS Murphy,P.D., Allen,A.C., Alvares,C.P., Critz,B.S., Olson,S.J.,  
Schelter,D.B. and Zeng,B.  
TITLE Coding sequences of the human BRCA1 gene  
JOURNAL Patent: US 5750400-A 1 12-MAY-1998;  
FEATURES Location/Qualifiers  
source 1..5711  
/organism="unknown"  
BASE COUNT 1953 a 1099 c 1277 g 1382 t  
ORIGIN

```
1 agctcgctga gacttctctg accccgcacc aggctgtggg gtttctcaga taactgggcc
61 cctgcgctca ggaggccttc accctctgct ctgggtaaag ttcataggaa cagaaagaaa
121 tggatttatc tgctcttcgc gttgaagaag taaaaaatgt cattaatgct atgcagaaaa
181 tcttagagtg tccatctgtg ctggagttga tcaaggaaacc tgtctccaca aagtgtgacc
241 acatatcttg caaatcttgc atgtgaaac ttctcaacca gaagaaaggg ccttcacagt
301 gtcccttatg taagaatgat ataaccaaaa ggagcctaca agaaagtacg agatttagtc
361 aacttggtga agagctattg aaaaatcatt gtgcttttca gcttgacaca ggtttgagat
421 atgcacaaacg ctataatttt gcaaaaaaagg aaaataaactc tcctgaacat ctaaaagatg
481 aagtttctat catccaaagt atgggtctaca gaaaccgtgc caaaagactt ctacagagtg
541 aacccgaaaa tccttccttg caggaaacca gtctcagtggt ccaactctct aaccttgga
601 ctgtgagaa cctgaggaca aagcagcgga tacaacctca aaagacgtct gtctacattg
661 aattgggata tgattcttct gaagataacc ttaataaggc aacttattgc agtggtggag
721 atcaagaatt gttacaaatc acccctcaag gaaccaggga tgaatcagtg ttgattctg
781 caaaaaaggc tgcttgtaga ttttctgaga cggatgtaac aaatactgaa catcatcaac
841 ccagtaataa tgatttgaac accactgaga agcgtgcagc tgagaggcat ccagaaaagt
901 atcagggtga tctctgttca aacttgcagt tggagccatg tggcacaact actcatgcca
961 gctcattaca gcatgagaac agcagtttat tactcactaa agacagaatg aatgtagaaa
1021 aggctgaatt ctgtaataaa agcaaacagc ctggcttagc aaggagccaa cataacagat
1081 gggctggaag taaggaaaca tgtaatgata ggcggactcc cagcacagaa aaaaaggtag
1141 atctgaatgc tagatccctg tgtgagagaa aagaatgga aagcagaaa ctgccatgct
1201 cagagaatcc tagagatact gaagatgttc cttggataac actaaatagc agcattcaga
1261 aagttaatga gtggttttcc agaagtgatg aactgttagg ttctgatgac tcacatgatg
1321 gggagctctg atcaaatgcc aaagttagtg atgtattgga cgttctaaat gaggtagatg
1381 aatattctgg ttcttcagag aaaatagact tactggccag tgatcctcat gaggctttaa
1441 tatgtaaaag tgaaagagtt cactccaaat cagtagagag taatattgaa gacaaaatat
1501 ttgggaaaac ctatcggaag aaggcaagcc tcccaactt aagccatgta actgaaaatc
1561 taattatagg agcatttggt actgagccac agataataca agagcgtccc ctcaaaaata
1621 aattaaaggc taaaaggaga cctacatcag gccttcatcc tgaggatttt atcaagaaag
1681 cagatttggc agttcaaaa actcctgaaa tgataaatca gggaactaac caaacggagc
1741 agaattgtca agtgatgaat attactaata gtggtcatga gaataaaaca aaaggtgatt
1801 ctattcagaa tgagaaaaat cctaaccctaa tagaataact cgaaaaagaa tctgctttca
1861 aaacgaaagc tgaacctata agcagcagta taagcaatat ggaactcgaa ttaaatatcc
1921 acaattcaaa agacactaaa aagaataggc tgaggaggaa gtcttctacc aggcattatc
1981 atgcgcttga actagtagtc agtagaaatc taagcccacc taattgtact gaattgcaaa
2041 ttgatagttg ttctagcagt gaagagataa agaaaaaaa gtacaaccaa atgccagtca
2101 ggcacagcag aaacctacaa ctcatggaag gtaaagaacc tgcaactgga gccaaagaag
2161 gtaacaagcc aaatgacagc acaagtataa gacatgacag tgataacttc ccagagctga
2221 agttaacaaa tgcacctggt tcttttacta agtgttcaaa taccagtga cttaaagaat
2281 ttgtcaatcc tagccttcca agagaagaaa aagaagagaa actagaaaca gttaaagtgt
2341 ctaataatgc tgaagaccce aaagatctca tgttaagtgg agaaagggtt ttgcaactg
2401 aaagatctgt agagatgagc agtatcttcc tggtagctgg tactgattat ggcactcagg
2461 aaagtatctc gttactggaa gttagcactc tagggaaggc aaaaacagaa ccaaataaat
2521 gtgtgagtcg gtgtgcagca tttgaaaacc ccaagggact aattcatggt tgttccaaag
2581 ataatagaaa tgacacagaa ggctttaagt atccattggg acatgaagtt aaccacagtc
2641 gggaaacaag catagaaaat gaagaaagtg aacttgatgc tcagtatttg cagaatacat
2701 tcaaggtttc aaagcgccag tcatttgctc tgttttcaaa tccaggaaat gcagaagagg
```



CGCTCAGG...GACTTCG...GCTAG...GATCGGATC...CCCCGG...ATATAGCTCGATCGATCT  
TTCTCTAT...TCG...ATGG...TATATACACACAC...GUGG...ATAGCATGACTGATCTA  
CCGCA...TTT...TTTCGCATACGTCT...  
CACAGAC...ACGCT...CTCAC...ACTTAC TAACCAATTCGGGAGGGGCGGCGA TCGGCGGAG

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search  for

Limits

Show:

☐ 1: AR007334. Sequence 3 from p...[gi:3966818]

LOCUS AR007334 5711 bp DNA linear PAT 04-DEC-1998  
DEFINITION Sequence 3 from patent US 5750400.  
ACCESSION AR007334  
VERSION AR007334.1 GI:3966818  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 5711)  
AUTHORS Murphy,P.D., Allen,A.C., Alvares,C.P., Critz,B.S., Olson,S.J.,  
Schelter,D.B. and Zeng,B.  
TITLE Coding sequences of the human BRCA1 gene  
JOURNAL Patent: US 5750400-A 3 12-MAY-1998;  
FEATURES Location/Qualifiers  
source 1..5711  
/organism="unknown"  
BASE COUNT 1956 a 1098 c 1274 g 1383 t  
ORIGIN

```
1 agctcgctga gacttctctg accccgcacc aggcgtgtgg gtttctcaga taactggggc
61 cctgcgccta ggaggccttc accctctgct ctgggttaaag ttcataggaa cagaaagaaa
121 tggatttatc tgctcttcgc gttgaagaag tacaaaatgt cattaatgct atgcagaaaa
181 tccttagagt tcccctctgt ctggagttga tcaaggaacc tgtctccaca aagtgtgacc
241 acatattttg caaattttgc atgctgaaac ttctcaacca gaagaaaggg ccttcacagt
301 gtcctttatg taagaatgat ataaccaaaa ggagcctaca agaaagtacg agatttagtc
361 aacttggtga agagctattg aaaatcattt gtgcttttca gcttgacaca ggtttgagtg
421 atgcaaaacag ctataatttt gcaaaaaaagg aaaataactc tcctgaacat ctaaaagatg
481 aagtttctat catccaaagt atgggtctaca gaaaccgtgc caaaagactt ctacagagtg
541 aacccgaaaa tccttctctg caggaaacca gtctcagtgt ccaactctct aaccttggaa
601 ctgtgagaa cctgaggaca aagcagcgga tacaacctca aaagacgtct gtctacattg
661 aattgggata tctgtcttct gaagataacc ttaataaagg aacttattgc agtgtgggag
721 atcaagaatt gttacaaatc acccctcaag gaaccaggga tgaaatcagt ttggattctg
781 caaaaaaggc tgcttggtga ttttctgaga cggatgtaac aaatactgaa catcatcaac
841 ccagtaataa tgatttgaac accactgaga agcgtgcagc tgagaggcat ccagaaaaagt
901 atcagggtga ttctgtttca aacttgcattg tggagccatg tggcacaaat actcatgcc
961 gctcattaca gcatgagaac agcagtttat tactactaa agacagaatg aatgtagaaa
1021 aggcgtgaatt ctgtaataaa agcaaacagc ctggtctagc aaggagccaa cataacagat
1081 gggctggaag taaggaaaca tgtaatgata ggcggactcc cagcacagaa aaaaaggtag
1141 atctgaatgc tgatccctgt tgtgagagaa aagaatggaa taagcagaaa ctgccatgct
1201 cagagaatcc tagagatact gaagatgttc cttggataac actaaatagc agcattcaga
1261 aagttaatga gtggttttcc agaagtgatg aactgttagg ttctgatgac tcacatgatg
1321 gggagtctga atcaaatgcc aaagttagct atgtattgga cgttctaaat gaggtagatg
1381 aattattctg ttcttcagag aaaatagact tactggccag tgatcctcat gaggctttaa
1441 tatgtaaaag tgaaagagtt cactccaaat cagtagagag taatattgaa gacaaaatat
1501 ttgggaaaac ctatcggaag aaggcaagcc tccccaactt aagccatgta actgaaaatc
1561 taattatagg agcatttgtt actgagccac agataataca agagcgtccc ctcaaaaata
1621 aattaaagcg taaaaggaga cctacatcag gccttcaccc tgaggatttt atcaagaaag
1681 cagatttggc agttcaaaag actcctgaaa tgataaatca gggaactaac caaacggagc
1741 agaattgtca agtgatgaat attactaata gtggtcatga gaataaaaca aaaggtgatt
1801 ctattcagaa tgagaaaaat cctaacccaa tagaatcact cgaaaaagaa tctgctttca
1861 aaacgaaagc tgaacctata agcagcagta taagcaatat ggaactcgaa ttaaatatcc
1921 acaattcaaa agcacctaaa aagaatagtc tgaggaggaa gtcttctacc aggcattatc
1981 atgcgcttga actagtagtc agtagaaatc taagcccacc taattgtact gaattgcaaa
2041 ttgatagtgt ttctagcagt gaagagataa agaaaaaaa gtacaaccaa atgccagtca
2101 ggcacagcag aaacctacaa ctcattggaag gtaaaagaac tgcaactgga gccaaagaag
2161 gtaacaagcc aaatgaacag acaagtaaaa gacatgacag cgatactttc ccagagctga
2221 agttaacaaa tgcacctggt tcttttacta agtgttcaaa taccagtga cttaaagaat
2281 ttgtcaatcc tagccttccc agagaagaaa aagaagagaa actagaacaa gttaaagtgt
2341 ctaataatgc tgaagacctc aaagattctc tgttaagtgg agaaagggtt ttgcaaactg
2401 aaagatctgt agagagtagc agtatttcat tggtagctgg tactgattat ggcaactcag
2461 aaagtatctc gttactggaa gttagcactc tagggaaggc aaaaacagaa ccaaataaat
2521 gtgtgagtca gtgtgcagca tttgaaaacc ccaagggact aattcatggt tgttccaaag
2581 ataatagaaa tgacacagaa ggctttaagt atccattggg acatgaagtt aaccacagtc
2641 gggaaaacaag catagaaagt gaagaaagtg aacttgatgc tcagtatttg cagaatacat
2701 tcaaggtttc aaagcgccag tcatttgctc tgttttcaaa tccaggaaat gcagaagagg
```